

## **ABSTRACT**

An input detection device contains a button set having a plurality of buttons utilized for inputting commands, each button outputting a unique voltage level when the button is activated. The input detection device also contains a voltage generating circuit for outputting a plurality of generated voltage levels corresponding to the unique voltage levels outputted by each of the buttons in the button set, and a comparator for comparing each of the generated voltage levels outputted from the voltage generating circuit with the voltage outputted from the button set. A control circuit controls the voltage generating circuit to alternately output each of the generated voltage levels, records the generated voltage level that is approximately equal to the voltage outputted from the button set, and determines which button in the button set was activated based on the recorded generated voltage level.